

## Final Report: Workshop in Discrete Optimization

Office of Naval Research funds were used in support of the *What a Pivot* international workshop in discrete optimization, September 26–28, 2010, at Universität Erlangen-Nürnberg, Erlangen, Germany. The workshop attracted 71 participants. The program consisted of 5 hour-long plenary lectures and 15 thirty-minute lectures. Highlights of the meeting were studies of state-of-the-art methods for the solution of linear-programming models and discussions of recent developments of algorithmic and structural results in graphs and matroids.

The plenary lectures were the following.

- Dr. Louis Billera (Cornell University), How Many Faces Can a Polytope Have? One Hundred Years and Still Counting.
- Dr. David Applegate (ATT Labs), Using Large-Scale Computation to Estimate the Beardwood-Halton-Hammersley TSP Constant.
- Dr. William Cunningham (University of Waterloo), Matroids, Graphs, and 3-Connectivity.
- Dr. Martin Grötschel (Zuse Centrum Berlin), Combinatorial Online Optimization and Logistics.
- Dr. Donald Wagner (Office of Naval Research), Graphs, Matroids, and Flows.

ONR funding allowed us to bring a selection of top young researchers to the workshop, who benefited from the diverse topics presented in the plenary lectures, and contributed to the vitality of the mathematical discussion.